EVOLVEN

APPLICATION PRODUCTION READINESS

Eliminate drift & ensure stability for every deployment

Any Change Introduces Risk to Environment Stability & Performance.

Neither careful change planning nor thorough testing can fully eliminate the risk associated with change, due to the complexity of enterprise IT systems and their interdependencies. It is simply impossible to predict and validate all possible implications of every change being deployed.

At the same time, **the pace and volume of changes is continuously increasing as business demands IT to rapidly respond to dynamic market conditions and customer requirements**. Multiple stakeholders, sometimes distributed geographically, are involved in a mix of manual and automated process steps driving changes from build to production.

As a result, the **balance between speed and control is frequently broken** leading to performance and availability issues, or slow change processes impeding business results.

Change Awareness is Key for Stable Environments.

To maintain stability, deployments should be consistent across application and infrastructure layers. The changes should be transitioned from lower environments to production with accuracy. When applications are deployed in production, the infrastructure needs to be aligned and ready for the specific application changes to meet any configuration prerequisites, including changes validated in lower environments, and fine tuning executed in the performance test environment.

The challenge is knowing the detailed state of each of the environments and actual granular results of each deployment. Collecting and analyzing this information manually is extremely time consuming and often simply impossible.

Automatically Verify Application Production Readiness.

Evolven has developed a set of unique technological capabilities for enterprises to automatically detect any drift and verify application production readiness before and after every deployment, planned or unplanned, documented or not.

1 COLLECTION

Evolven uses its scanning technology to dynamically collect most granular configurations and an inventory of environment components from the application level, down to the infrastructure, and from the on-premise data center to the public cloud. There is no need to define what to collect. Evolven decides on the scope and collects configuration information out of the box, not missing any critical change.

✔ The collected configuration is resolved down to individual parameters.

✔ All configuration sources are supported, including files, Windows registry, data kept in the database, API based configuration, and system commands.

✔ Each environment component configuration is scanned to its maximum extent.

✔ Evolven can be easily tuned to collect the configuration of custom applications without any coding.

2 ANALYTICS

Evolven automatically detects actual granular changes and inconsistencies in the collected configuration and inventory data. It highlights the risky changes and drift with the help of patented machine-learning analytics.

✔ Compare inventory and configuration data across environment components, hosts and entire environments.

✔ Verify the consistency of inventory and configuration across IT environments.

✔ Automatically dismiss irrelevant information and noise.

3 POLICIES

Users can easily encode deployment prerequisites and organizational configuration standards as flexible rules for the desired type, range and values of configuration parameters. Evolven continuously validates collected environment configuration and detected changes against the policies, highlighting any policy breaks.

Ensure Accurate Deployments.

Evolven ensures successful deployments by:

✔ Verifying infrastructure configuration against policies defined as deployment prerequisites.

✔ Identifying unexpected differences between production infrastructure configuration and configuration of lower environments.

✔ Verifying accuracy of change deployment, comparing certified changes in lower environments against post-deployment production environments.

✔ Identifying inconsistencies created as a result of production deployments.

✔ Automatically prioritizing changes and inconsistencies likely to cause performance and availability issues.

Evolven issues alerts through email, SMS or collaboration tools like Slack when risky changes, differences or inconsistencies are identified. Data can be presented in any existing dashboard or Evolven's own dashboard. Evovlen provides a single pane of glass in order to facilitate more effective collaboration between multiple stakeholders and teams involved in deployments.

The Benefits.

By tracking and analyzing changes across environments and taking actions on drift and policy breaks identified by Evolven, leading IT organizations across the world are able to make every deployment successful.
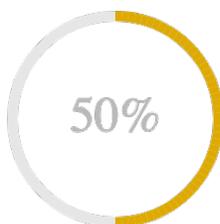
50% Less post-deployment incidents caused by changes
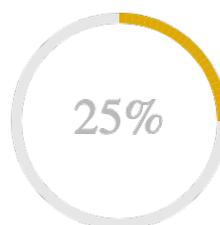
25% Less time spent on deployments